Recombinant HDX protein (His tag)

Catalog Number	545296
Species	Human
Expression System	E. coli
Accession	Q7Z353
Molecular Weight	Predictes a molecular mass of 10.54 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	581-655
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 581-655 aa (Q7Z353) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant HDX (Highly Divergent Homeobox) Fragment (581-655) - A stable and soluble protein fragment specifically designed for structural biology and biochemical studies. This 75-amino acid fragment represents a computationally optimized region of the human HDX protein, providing researchers with a reliable tool for investigating protein function and interactions. The full-length HDX protein (UniProt ID: Q7Z353) is a human homeobox-containing protein that localizes to the nucleus, as indicated by its subcellular location annotation. Homeobox proteins are transcription factors that play crucial roles in developmental processes, cell differentiation, and gene regulation. The nuclear localization suggests HDX functions in transcriptional regulation, potentially involved in controlling gene expression patterns during development or cellular specialization. This recombinant fragment provides researchers with a defined protein region for studying structural properties and molecular interactions without the complexity of the full-length protein.